0092742 09/742,260

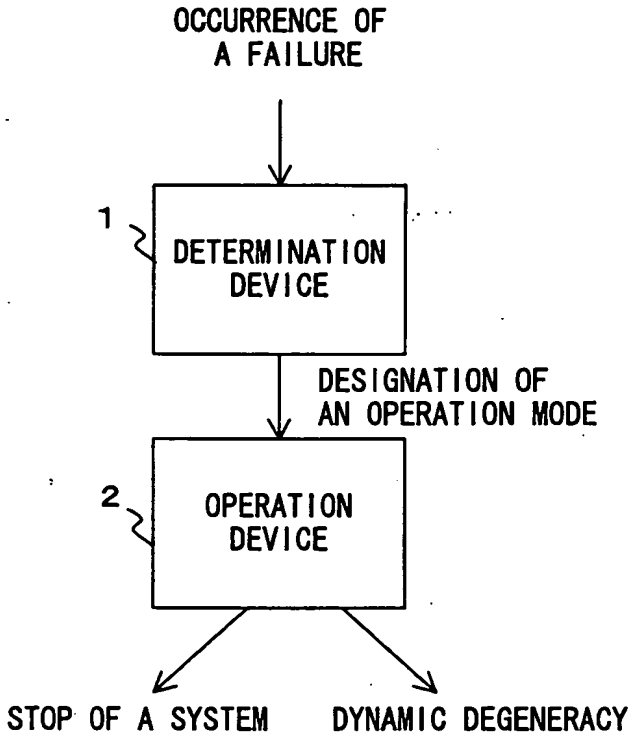

FIG. 1

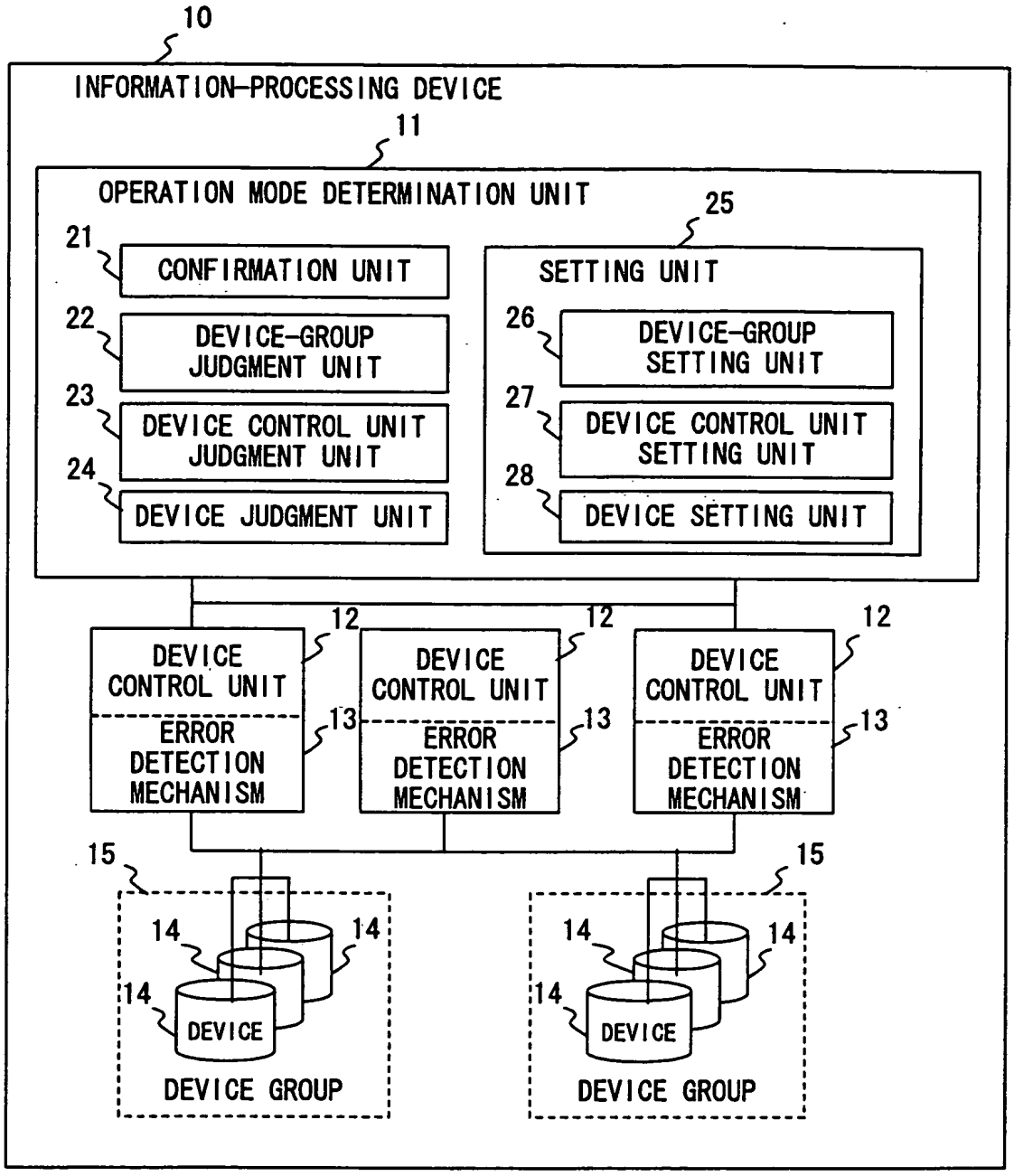
10
INFORMATION-PROCESSING DEVICE
11
OPERATION MODE DETERMINATION UNIT
21
CONFIRMATION UNIT
22
DEVICE-GROUP JUDGMENT UNIT
23
DEVICE CONTROL UNIT JUDGMENT UNIT
24
DEVICE JUDGMENT UNIT
25
SETTING UNIT
26
DEVICE-GROUP SETTING UNIT
27
DEVICE CONTROL UNIT SETTING UNIT
28
DEVICE SETTING UNIT
12
DEVICE CONTROL UNIT
13
ERROR DETECTION MECHANISM
15
14
DEVICE
DEVICE GROUP

FIG. 2

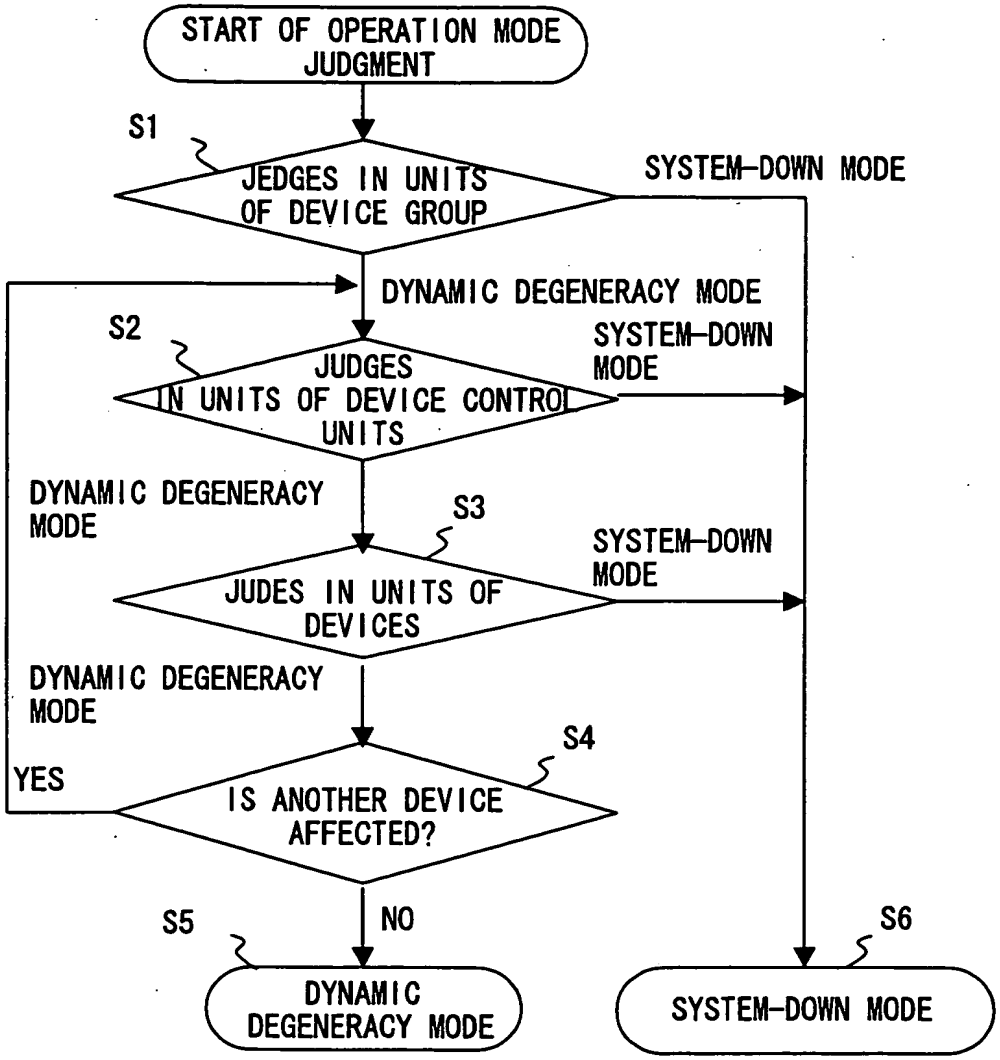
START OF OPERATION MODE JUDGMENT
S1
JEDGES IN UNITS OF DEVICE GROUP
SYSTEM-DOWN MODE
DYNAMIC DEGENERACY MODE
S2
JUDGES IN UNITS OF DEVICE CONTROL UNITS
SYSTEM-DOWN MODE
DYNAMIC DEGENERACY MODE
S3
JUDES IN UNITS OF DEVICES
SYSTEM-DOWN MODE
DYNAMIC DEGENERACY MODE
S4
YES
IS ANOTHER DEVICE AFFECTED?
S5
NO
S6
DYNAMIC DEGENERACY MODE
SYSTEM-DOWN MODE

FIG. 3

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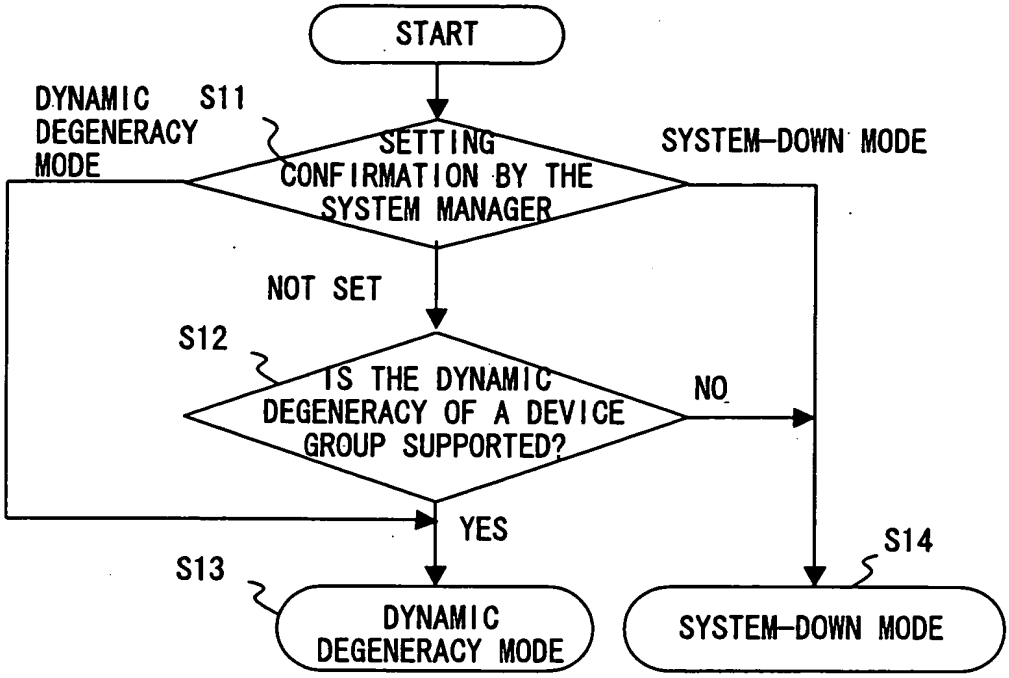

FIG. 4

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offline-enable	
0	SYSTEM-DOWN MODE
1	SEVERABLE

FIG. 5

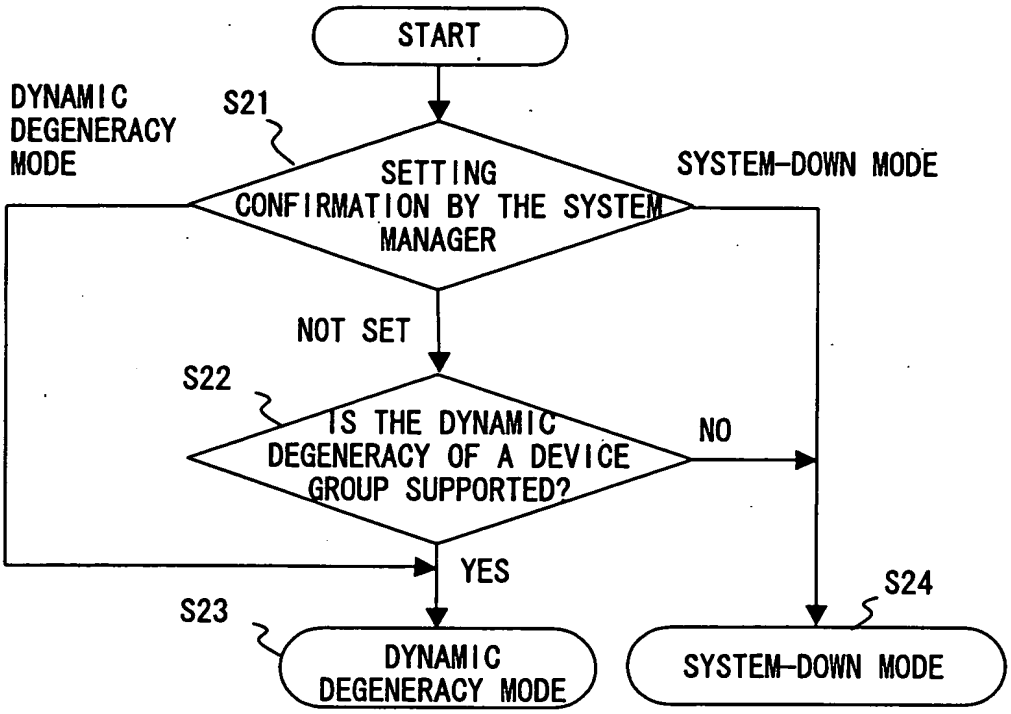
START
DYNAMIC DEGENERACY MODE
S21
SETTING CONFIRMATION BY THE SYSTEM MANAGER
SYSTEM-DOWN MODE
NOT SET
S22
IS THE DYNAMIC DEGENERACY OF A DEVICE GROUP SUPPORTED?
NO
YES
S23
S24
DYNAMIC DEGENERACY MODE
SYSTEM-DOWN MODE

FIG. 6

0 0 0

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reg-access-check-enable	
00	SYSTEM-DOWN MODE
10	SEVERABLE
11	SEVERABLE/PSEUDO-INTERRUPT AVAILABLE

FIG. 7

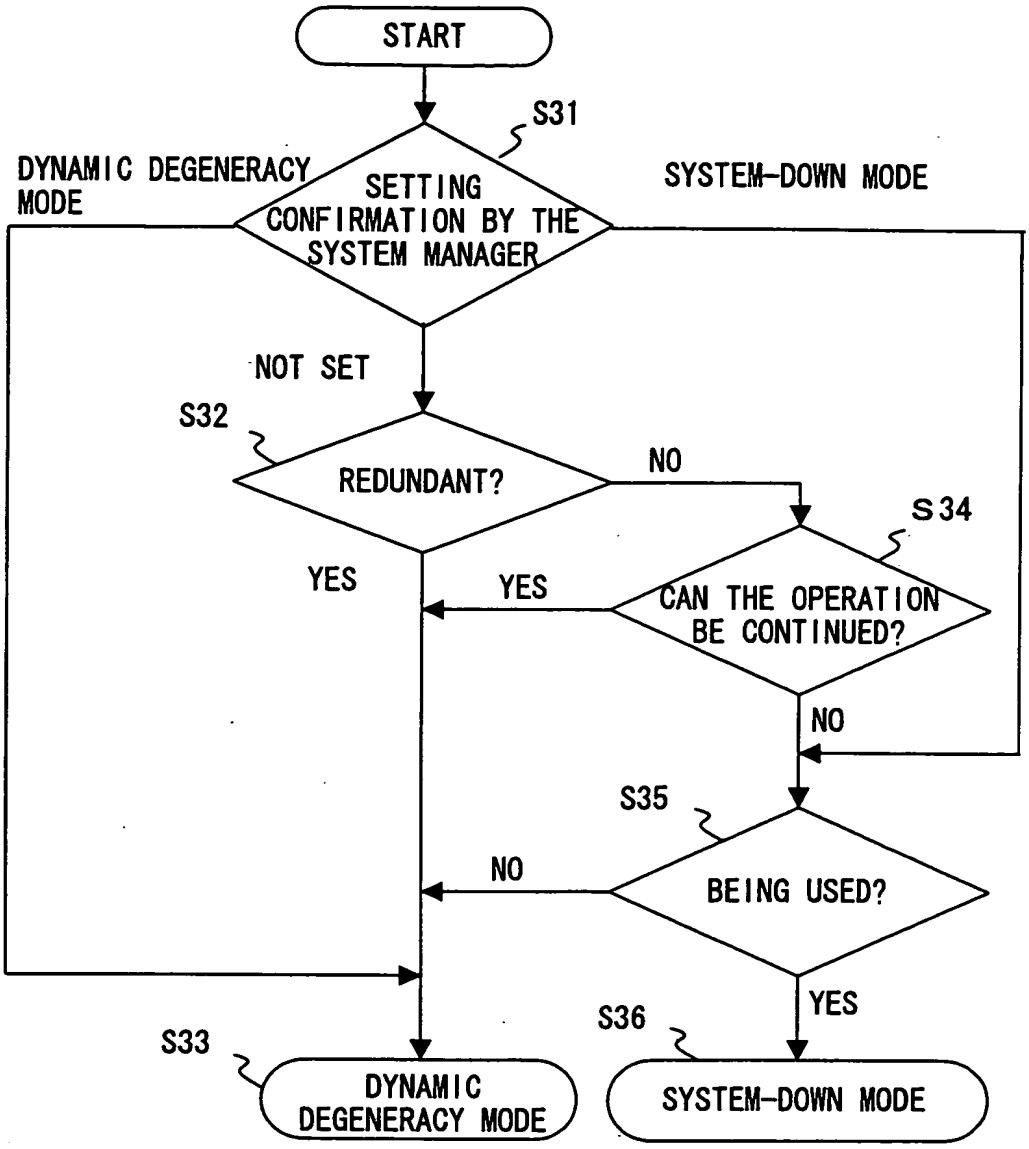
START
S31
SETTING CONFIRMATION BY THE SYSTEM MANAGER
DYNAMIC DEGENERACY MODE
SYSTEM-DOWN MODE
NOT SET
S32
REDUNDANT?
NO
S34
YES
YES
CAN THE OPERATION BE CONTINUED?
NO
S35
NO
BEING USED?
YES
S33
S36
DYNAMIC DEGENERACY MODE
SYSTEM-DOWN MODE

FIG. 8

0085214 : 85422260

IMPORTANCE	
0	LOW
1	HIGH

FIG. 9

0062148 05/22/00

FLAG	
0	NOT USED
1	BEING USED

FIG. 10

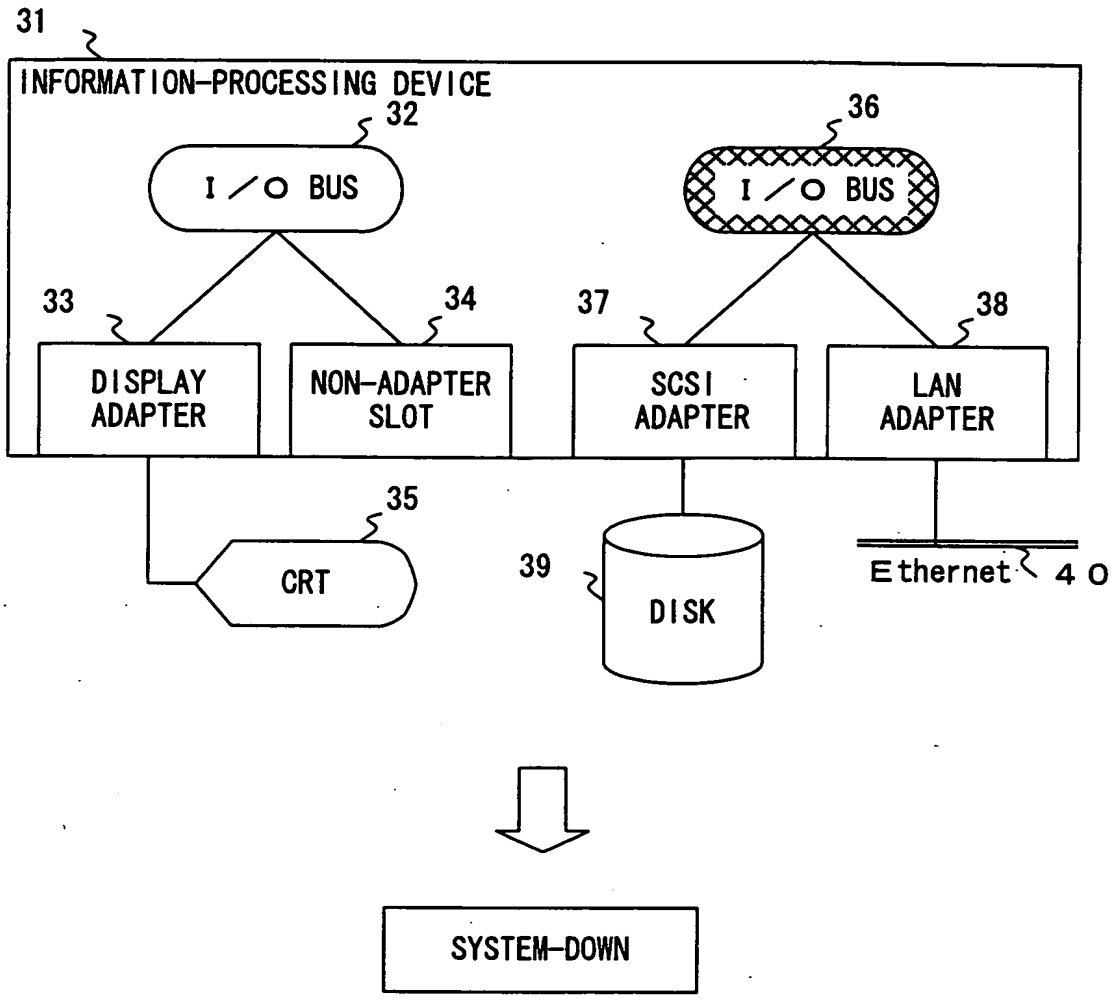
31
INFORMATION-PROCESSING DEVICE
32
I/O BUS
36
I/O BUS
33
34
37
38
DISPLAY ADAPTER
NON-ADAPTER SLOT
SCSI ADAPTER
LAN ADAPTER
35
CRT
39
DISK
Ethernet
40
SYSTEM-DOWN

FIG. 11

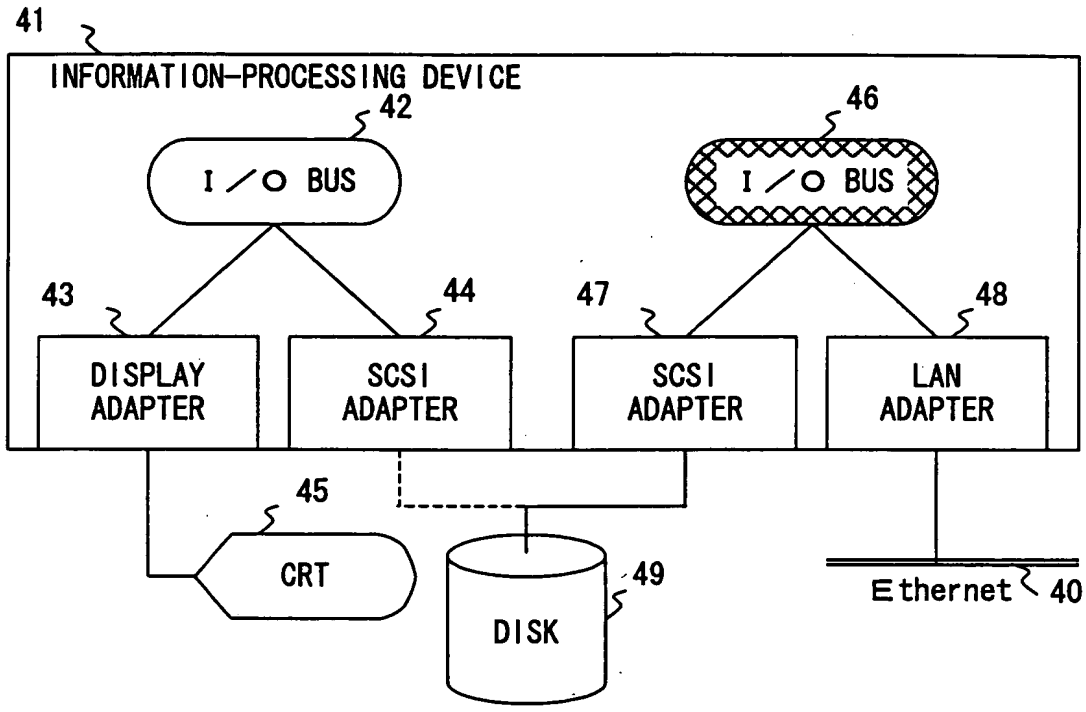
41
INFORMATION-PROCESSING DEVICE
42
I/O BUS
46
I/O BUS
43
44
47
48
DISPLAY ADAPTER
SCSI ADAPTER
SCSI ADAPTER
LAN ADAPTER
45
CRT
DISK
49
Ethernet
40

FIG. 12

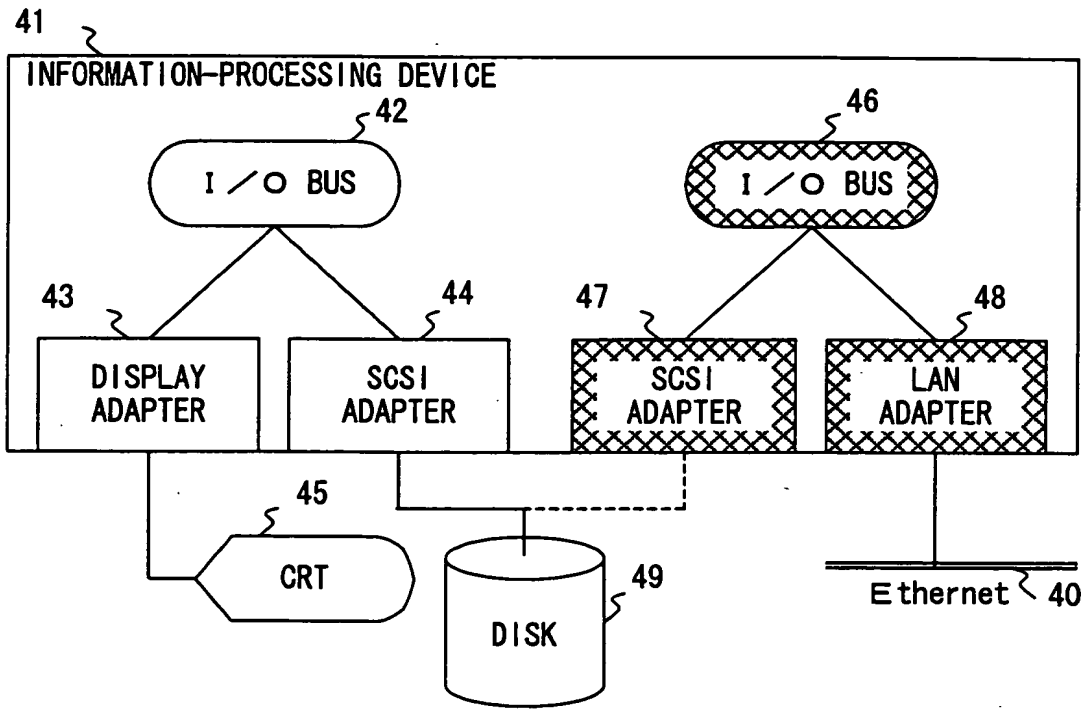
41
INFORMATION-PROCESSING DEVICE
42
I/O BUS
46
I/O BUS
43
44
47
48
DISPLAY ADAPTER
SCSI ADAPTER
SCSI ADAPTER
LAN ADAPTER
45
CRT
DISK
49
Ethernet
40

FIG. 13

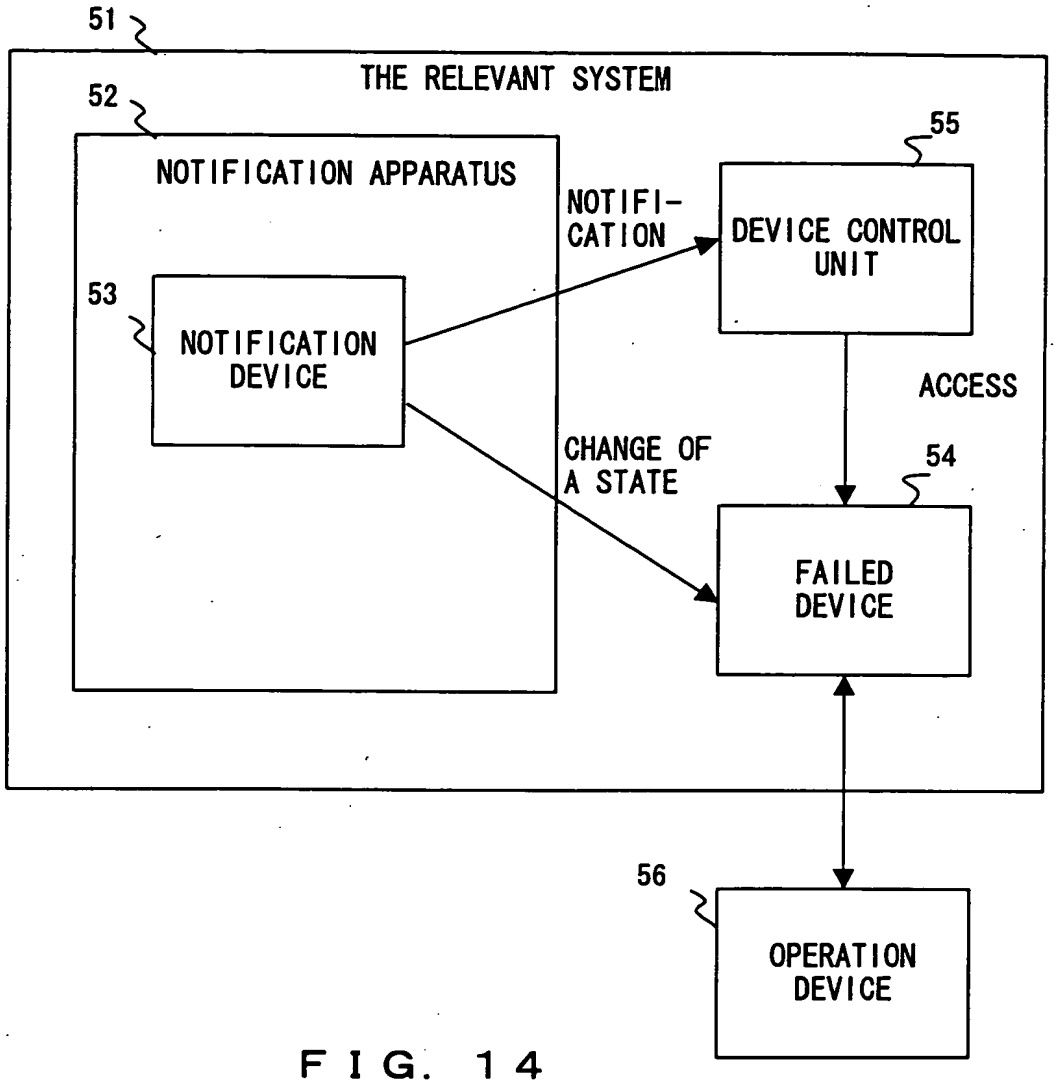
51
THE RELEVANT SYSTEM
52
NOTIFICATION APPARATUS
53
NOTIFICATION DEVICE
NOTIFI-CATION
55
DEVICE CONTROL UNIT
ACCESS
CHANGE OF A STATE
54
FAILED DEVICE
56
OPERATION DEVICE

FIG. 14

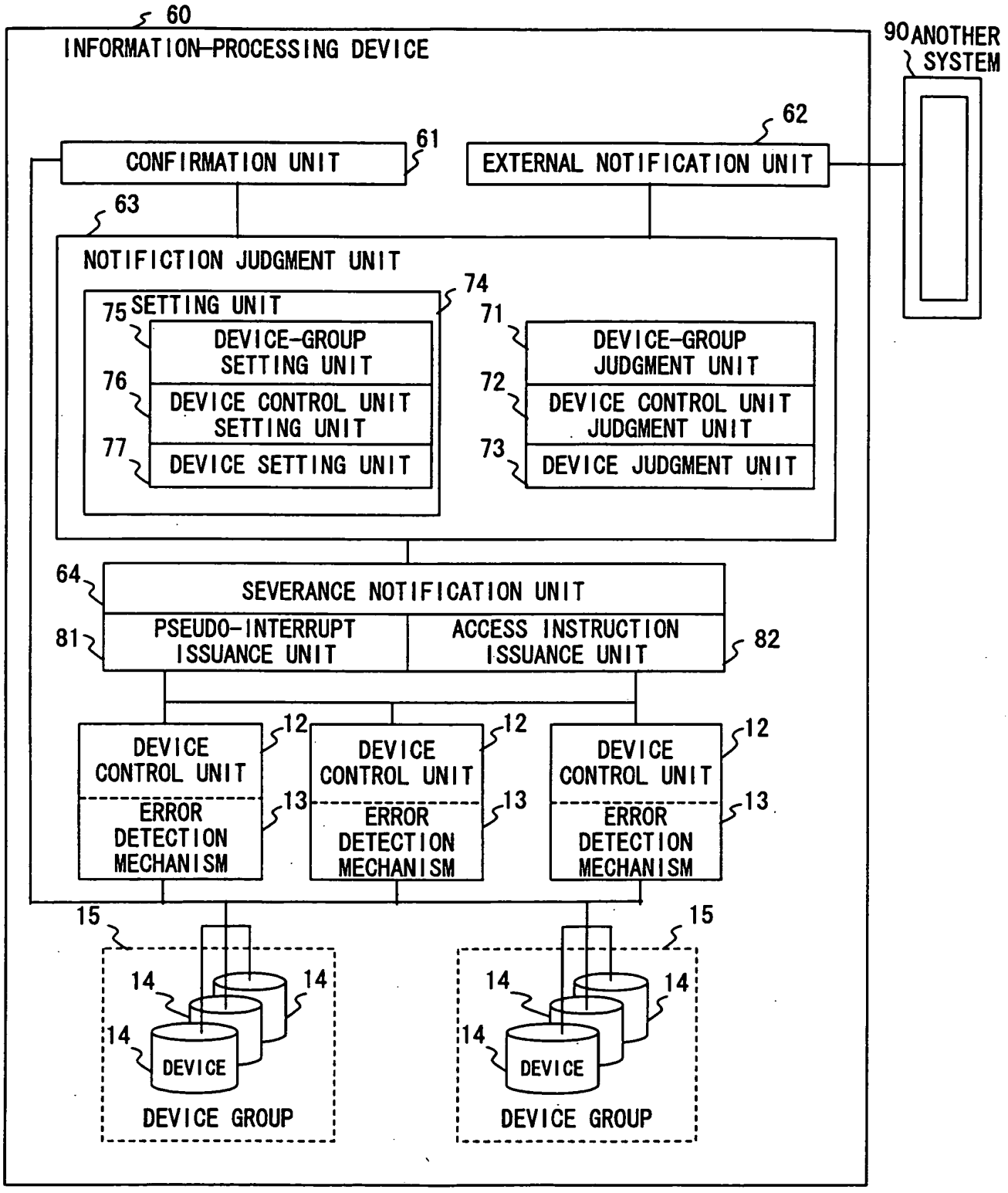
60
INFORMATION-PROCESSING DEVICE
90 ANOTHER SYSTEM
CONFIRMATION UNIT
61
EXTERNAL NOTIFICATION UNIT
62
63
NOTIFICTION JUDGMENT UNIT
74
75 SETTING UNIT
DEVICE-GROUP SETTING UNIT
76
DEVICE CONTROL UNIT SETTING UNIT
77
DEVICE SETTING UNIT
71
DEVICE-GROUP JUDGMENT UNIT
72
DEVICE CONTROL UNIT JUDGMENT UNIT
73
DEVICE JUDGMENT UNIT
64
SEVERANCE NOTIFICATION UNIT
81
PSEUDO-INTERRUPT ISSUANCE UNIT
ACCESS INSTRUCTION ISSUANCE UNIT
82
DEVICE CONTROL UNIT
12
ERROR DETECTION MECHANISM
13
15
14
DEVICE
DEVICE GROUP

FIG. 15

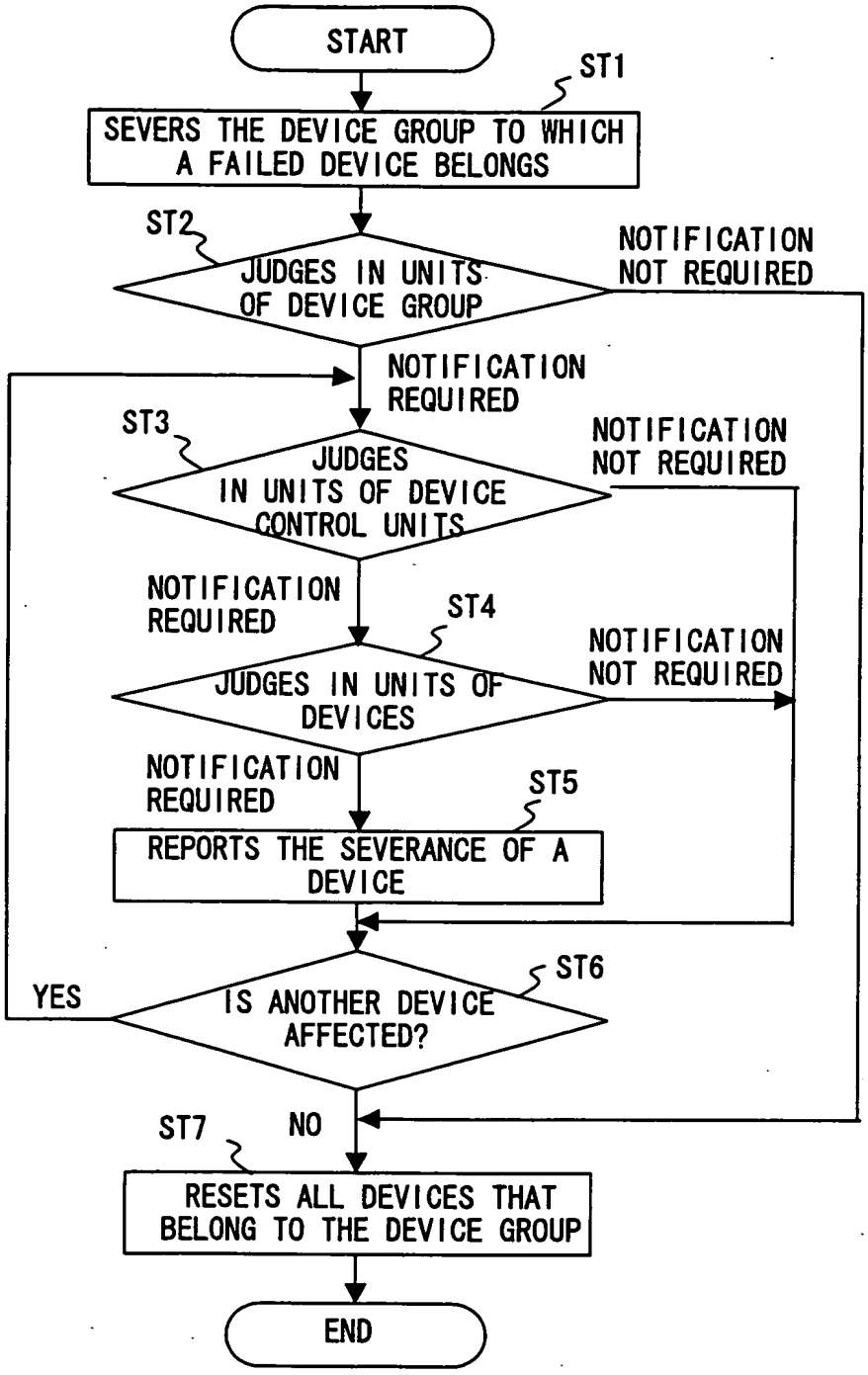
START
ST1
SEVERS THE DEVICE GROUP TO WHICH A FAILED DEVICE BELONGS
ST2
JUDGES IN UNITS OF DEVICE GROUP
NOTIFICATION NOT REQUIRED
NOTIFICATION REQUIRED
ST3
JUDGES IN UNITS OF DEVICE CONTROL UNITS
NOTIFICATION NOT REQUIRED
NOTIFICATION REQUIRED
ST4
JUDGES IN UNITS OF DEVICES
NOTIFICATION NOT REQUIRED
NOTIFICATION REQUIRED
ST5
REPORTS THE SEVERANCE OF A DEVICE
ST6
YES
IS ANOTHER DEVICE AFFECTED?
ST7
NO
RESETS ALL DEVICES THAT BELONG TO THE DEVICE GROUP
END

FIG. 16

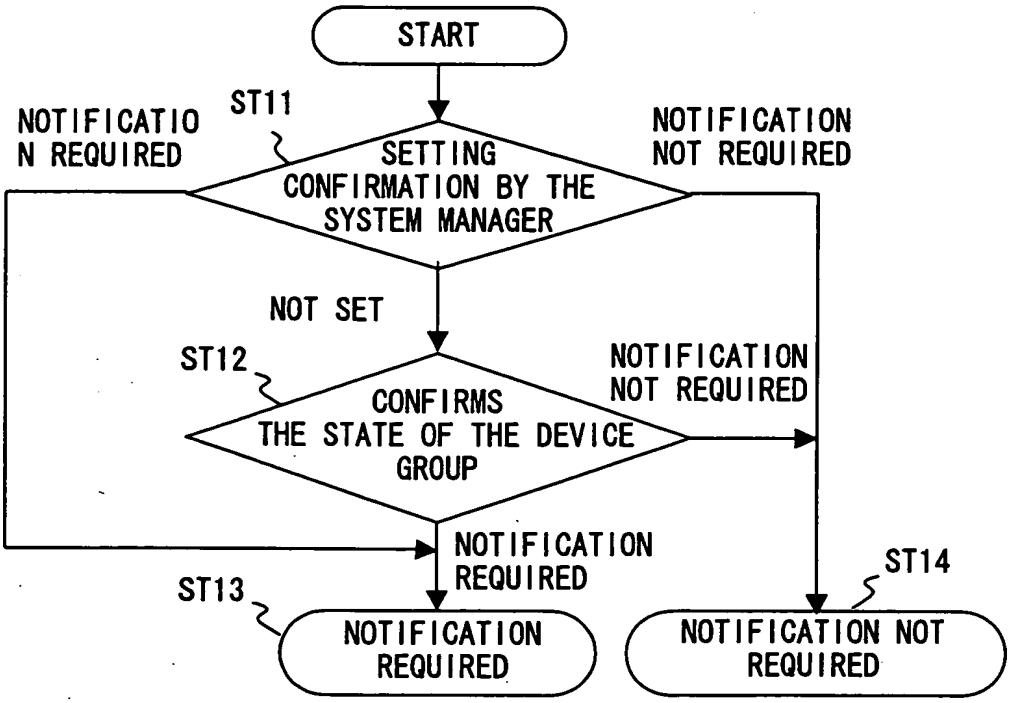
START
ST11
NOTIFICATIO N REQUIRED
SETTING CONFIRMATION BY THE SYSTEM MANAGER
NOTIFICATION NOT REQUIRED
NOT SET
ST12
CONFIRMS THE STATE OF THE DEVICE GROUP
NOTIFICATION NOT REQUIRED
NOTIFICATION REQUIRED
ST13
ST14
NOTIFICATION REQUIRED
NOTIFICATION NOT REQUIRED

FIG. 17

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offline-enable	
0	UNSEVERABLE
1	SEVERABLE

FIG. 18

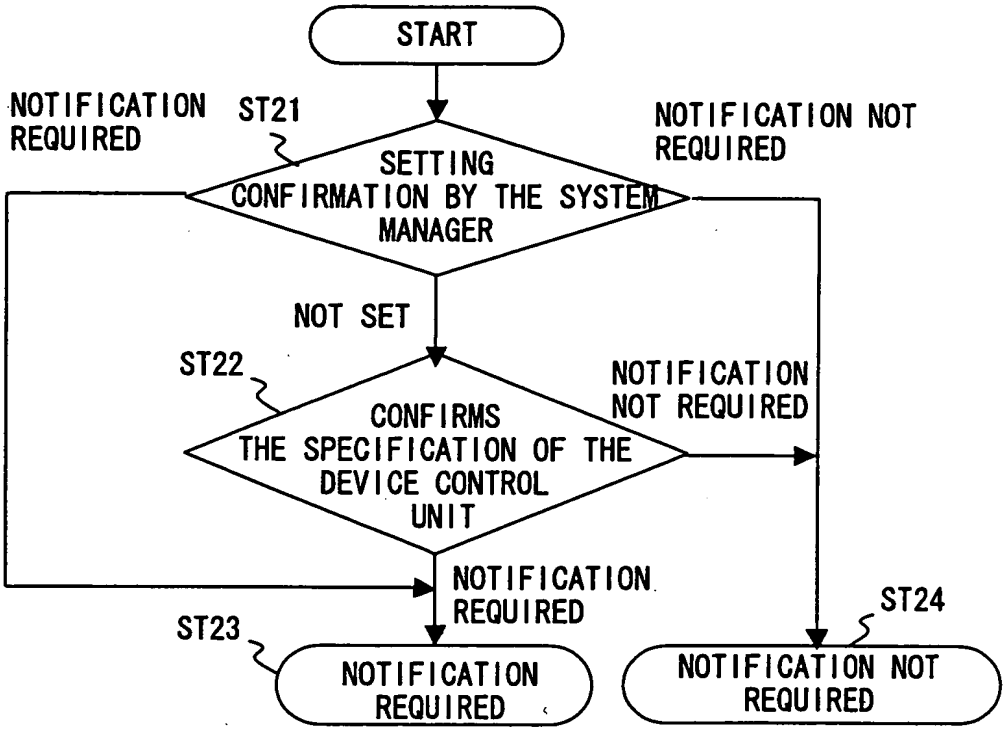

FIG. 19

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reg-access-check-enable	
00	UNSEVERABLE
10	SEVERABLE
11	SEVERABLE/PSEUDO-INTERRUPT AVAILABLE

FIG. 20

0000214 "95,25,260

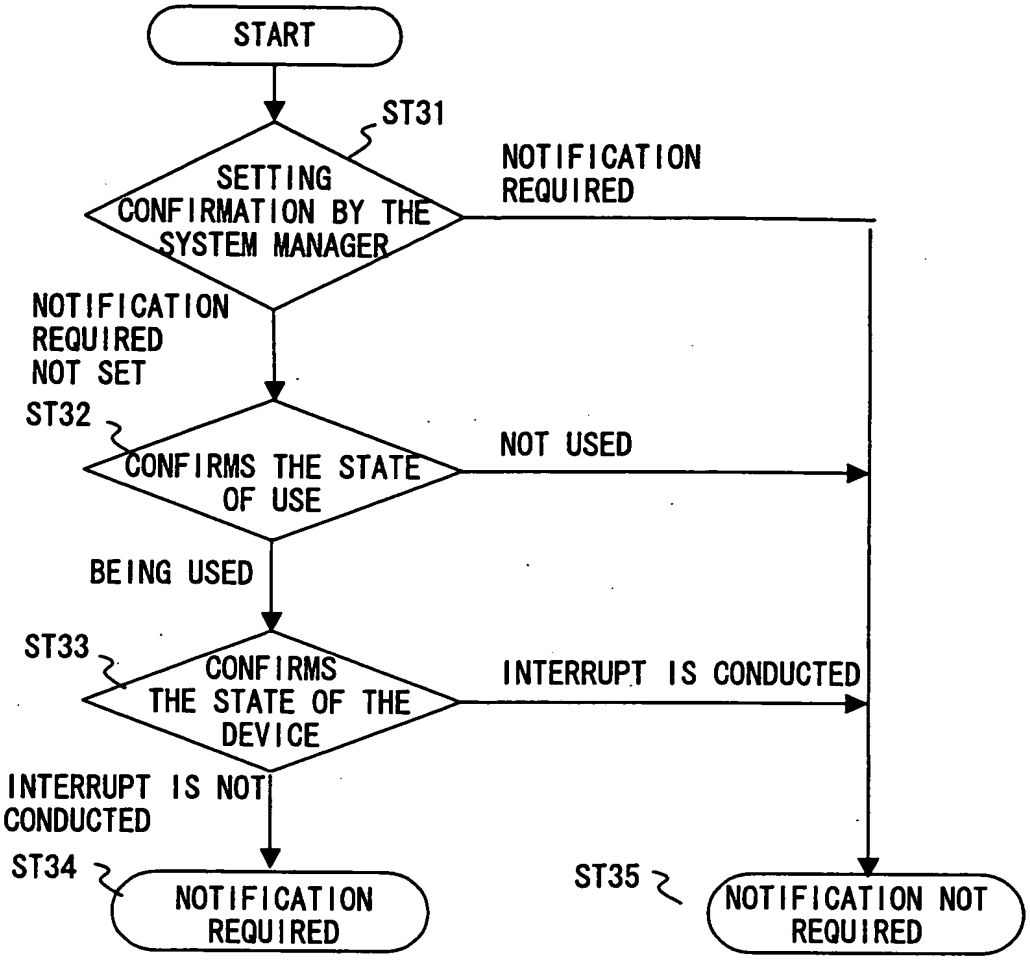
START
ST31
SETTING CONFIRMATION BY THE SYSTEM MANAGER
NOTIFICATION REQUIRED
NOTIFICATION REQUIRED NOT SET
ST32
CONFIRMS THE STATE OF USE
NOT USED
BEING USED
ST33
CONFIRMS THE STATE OF THE DEVICE
INTERRUPT IS CONDUCTED
INTERRUPT IS NOT CONDUCTED
ST34
NOTIFICATION REQUIRED
ST35
NOTIFICATION NOT REQUIRED

FIG. 21

0 0 8 2 4 2 6 0 : 8 0 4 2 6 2 6 0

STATE OF USE	
0	NOT USED
1	BEING USED

FIG. 22

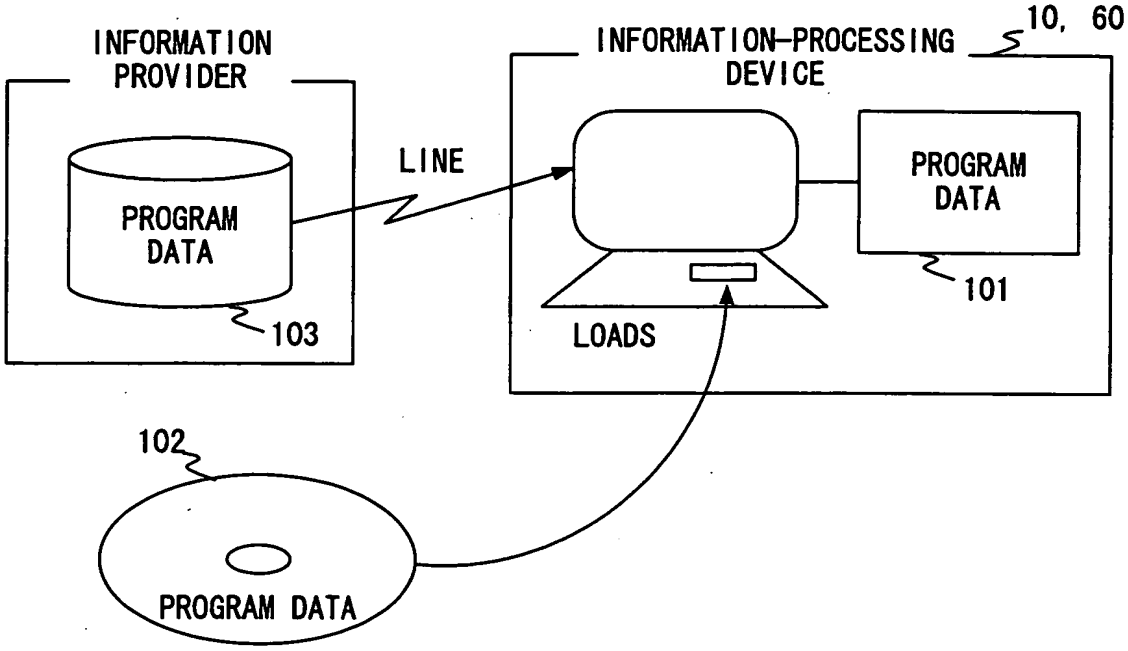
INFORMATION PROVIDER
PROGRAM DATA
103
LINE
INFORMATION-PROCESSING DEVICE
10, 60
PROGRAM DATA
101
LOADS
102
PROGRAM DATA

FIG. 23